

SPECTRAL FILTER

Patent number: JP1310302
Publication date: 1989-12-14
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Classification:
- **international:** G02B5/08
- **european:**
Application number: JP19880142263 19880609
Priority number(s):

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Abstract of JP1310302

PURPOSE: To obviate the generation of a large difference in hue between incident light as well as transmitted light and reflected light by successively laminating a metallic film and dielectric film having prescribed film thicknesses on one face of a transparent base body and confining the fluctuation in the visible ray transmittance to a prescribed value or below.

CONSTITUTION: The thin dielectric film 2, the thin metallic film 3 having 50-250Å film thickness and the tin dielectric film 4 having 300-1,500Å film thickness are successively laminated on one face of the transparent base body 1. The fluctuation in the entire region of 400-800nm visible region of visible ray transmittance is confined to $\leq +$ or -15% of the central value, i.e. $(\text{max. transmittance} + \text{min. transmittance}) \times 1/2$ and the fluctuation of visible ray reflectivity is confined to $\leq +$ or -15% of the central value, i.e. $(\text{max. reflectivity} + \text{min. reflectivity}) \times 1/2$. The incident light is separated to the transmitted light and the reflected light in such a manner. The spectral filter which decreases the absorption loss of light and can bisect the incident light nearly to the transmitted light and the reflected light is obtained.



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